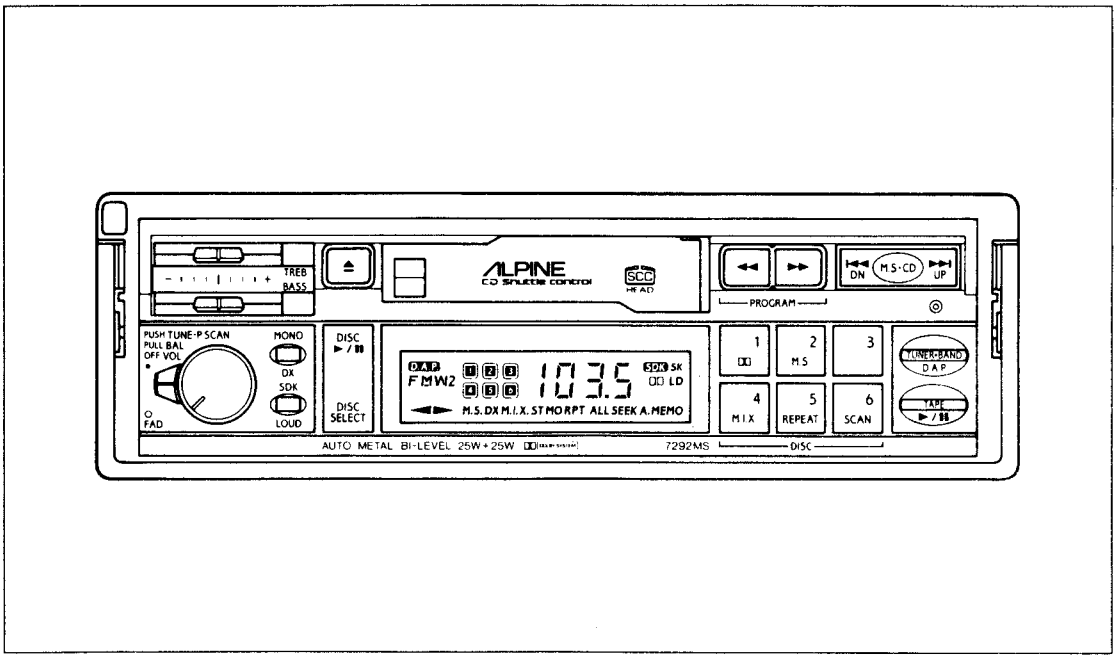
ALPINE®

OWNER'S MANUAL/BEDIENUNGSANLEITUNG/
MANUEL DU PROPRIETAIRE/MANUALE DEL PROPRIETARIO/
MANUAL DEL PROPIETARIO/BRUKSANVISNING

7292MS

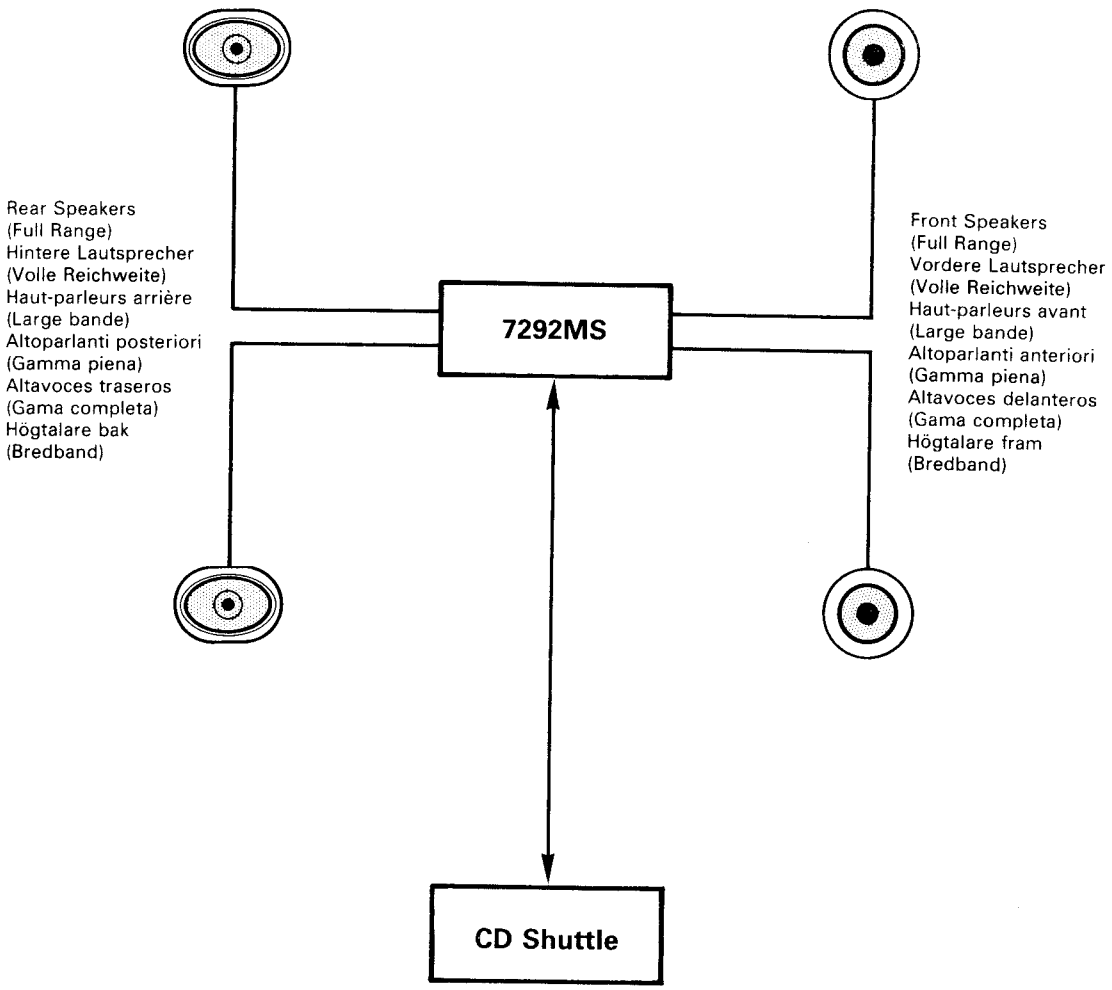
FM/MW/LW Cassette Receiver

CD Shuttle Controller



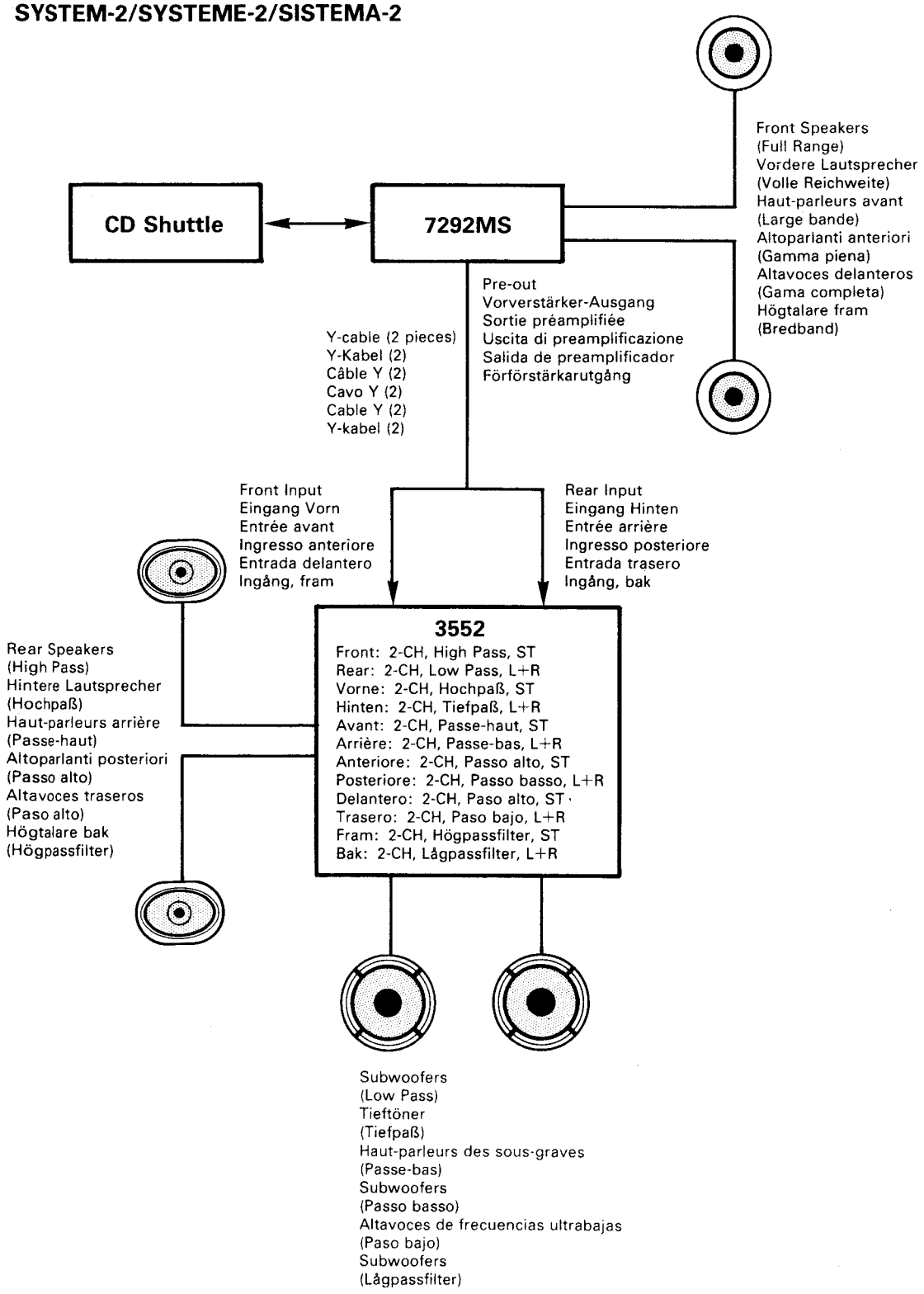
SYSTEM CHARTS/SYSTEMAUFBAU/DIAGRAMMES DU SYSTEME/DISPOSIZIONI DEL SISTEMA/DIAGRAMAS DEL SISTEMA/SYSTEM-ÖVERSIKT

SYSTEM-1/SYSTEME-1/SISTEMA-1



SYSTEM CHARTS/SYSTEMAUFBAU/DIAGRAMMES DU SYSTEME/DISPOSIZIONI DEL SISTEMA/DIAGRAMAS DEL SISTEMA/SYSTEM-ÖVERSIKT

SYSTEM-2/SYSTEME-2/SISTEMA-2



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CONTROLS AND INDICATORS/BEDIENUNGSELEMENTE UND ANZEIGEN/COMMANDES ET INDICATEURS/CONTROLLI ED INDICATORI/CONTROLES E INDICADORES/KONTROLLER OCH INDIKATORER

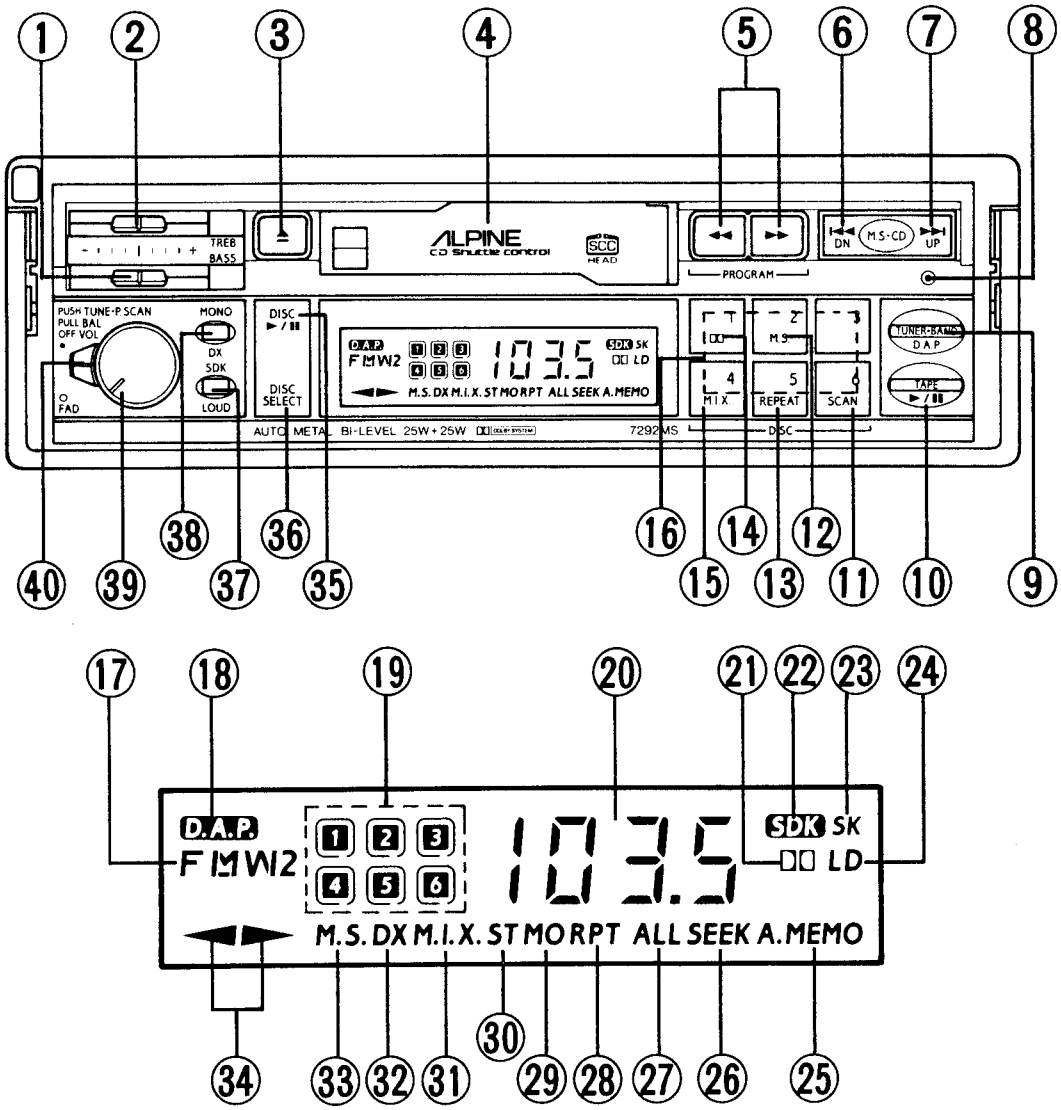

Fig. 1/Abb. 1

Please see the page indicated in the table below for explanations on the controls and indicators.
Die Erklärungen der Bedienungselemente und Anzeigen betreffend schauen sie sich bitte die in der folgenden Tabelle angegebene Seite an.
Prière de lire la page indiquée au tableau ci-dessous pour les explications sur les commandes et indicateurs.
Fate riferimento alla pagina indicata nella tabella qui sotto per ulteriori chiarimenti riguardo i controlli ed indicatori.
Consulte la página indicada abajo, en la tabla, para más explicaciones sobre los controles e indicadores.
Se sidindikeringarna i tabellen nedan för förklaring av kontroller och indikatorer.

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FEATURES

- **FULL FRONT DIN™ CHASSIS**
- **CD SHUTTLE CONTROL**
- **SCC TAPE HEAD™**
  The SCC tape head provides an exceptionally flat frequency response.
- **Q.R.B. (QUICK RELEASE BRACKET)**
  Alpine's exclusive Q.R.B. design allows for easy removal of the 7292MS, while still maintaining memory. The 7292MS may then be carried with the owner for theft prevention.
- **A. MEMO (AUTO MEMORY)**
  In the Auto Memory mode, the 6 strongest FM, MW or LW stations will automatically be stored in preset memory.
- **D.A.P. (DIRECT ACCESS PRESET)**
  D.A.P. allows the storage of FM, MW and LW presets on the same band, eliminating the need to press the TUNER/BAND button. Up to 6 FM, and MW/LW stations can be mixed in the D.A.P. Band.
- **PRESET SCAN (INTELLIGENT PRESET SCAN)**
- **MUSIC SENSOR IN FAST FORWARD AND REWIND**
- **M.I.X. (RANDOM PLAY-CD only)**
- **REPEAT (CD)**
  When activated while you are listening to your favorite music selection, the music will play over and over.
- **SCAN (CD)**
  It scans quickly and plays the beginning of each music selection for ten seconds. When you locate the selection of your choice, press the button again to play it till the end.
- **DOLBY* B NOISE REDUCTION**
- **LOUDNESS CONTROL AND INDICATOR**
- **LITETOUCH™ 30-STATION PRESETS**
  6-FM1; 6-FM2; 6-MW; 6-LW; 6-D.A.P.
- **SDK FUNCTION**
- **SELECTABLE FADER**
  This system allows you to select either the pre-amp or power amp fader mode. The pre-amp fader controls the signal level in the pre-amp stage for two amplifiers, and the power amp fader balances the front and rear speaker sound in a four-speaker system using the unit's internal power.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol (⧈) are trademarks of Dolby Laboratories Licensing Corporation.

CONTROLS AND INDICATORS

English

Refer to Fig. 1 on page 5.

① **BASS Control**
② **TREBle Control**
③ **Eject Button**
④ **Cassette Loading Slot**
⑤ **PROGRAM/FF & REW Buttons**

⑥ **M.S. · CD DowN Button**
⑦ **M.S. · CD UP Button**
⑧ **Reset Switch**
⑨ **D.A.P. (Direct Access Preset)/TUNER/BAND Button**
⑩ **TAPE Play/Pause Button (▶/II)**

⑪ **SCAN Button**
⑫ **M.S. (Music Sensor) Button**
⑬ **REPEAT Button**
⑭ **Dolby B NR Button**
⑮ **M.I.X. Button**

⑯ **Preset Buttons**
⑰ **Band Indicators**
⑱ **D.A.P. Indicator**
⑲ **Preset Address Indicators**
⑳ **Digital Display**

㉑ **Dolby B NR Indicator**
㉒ **SDK Indicator**
㉓ **SK Indicator**
㉔ **LouDness Indicator**
㉕ **Auto MEMOry Indicator**

㉖ **SEEK Indicator**
㉗ **ALL repeat Indicator**
㉘ **RePeaT Indicator**
㉙ **MOno Indicator**
㉚ **STereo Indicator**

㉛ **M.I.X. Indicator**
㉜ **DX (Local/Distance) Indicator**
㉝ **M.S. Indicator**
㉞ **Tape Direction Indicators**
㉟ **DISC Play/Pause Button (▶/II)**

㊱ **DISC SELECT Button**
㊲ **SDK/LOUDness Switch**
㊳ **MONO/DX (Local/Distance) Switch**
㊴ **Power Switch/VOLume Control/BALance Control (PULL)/TUNE Switch (PUSH)/P. SCAN Switch (PUSH)**
㊵ **FADer Control**

PRECAUTIONS

- When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder. If the fuse(s) blows more than once, carefully check all electrical connections for shorted circuitry. Also have your vehicle's voltage regulator checked. Do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

- In order to ensure proper performance, be sure the temperature in your vehicle is between the range of 14° F (−10°C) to 140°F (60°C) before turning your player on. Good air circulation is essential to prevent heat build-up in the unit (especially in hot weather).

- C-120 type cassette tapes are not recommended for use in automobile tape players.

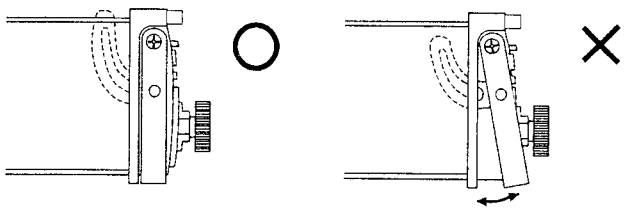
- Prevent any foreign objects from entering the cassette opening as the precision mechanism and tape head may be damaged.

- To protect your cassette tapes, store them in a cool place away from dust, dirt, and strong magnetic sources such as electric motors, speakers and TV sets.

- Check and make sure any slack in the tape is taken up before inserting the tape into the unit. A loose tape could cause damage to the unit and the tape itself. Tighten the cassette by inserting a pencil or a similar instrument into the spindle hole and turn until all the slack has been taken up.

- Use of this equipment at high volumes could damage your hearing.

- **CAUTION:**
  In the event of road vibration or rapid acceleration or vehicle collision, this unit may become dislodged from its case unless the handle is fully down. This could result in personal injury to occupants of the vehicle or physical damage to the unit. Please see the illustrations below for further information on how to properly secure the handle.



- **CAUTION:**
  The heat sink on the rear of the unit will become hot after operation. Exercise caution when the unit is removed from the Q.R. Bracket.

OPERATION

● BASIC OPERATION

Power Switch and Volume Control ㊴

Rotating the Power switch ㊴ clockwise turns the power ON and continuously increases the volume. Rotating the control counterclockwise will continuously decrease the volume, and turn the power OFF.

NOTE:

Keep the volume control turned fully counterclockwise before your program starts. Adjust the volume by gradually turning the control clockwise once playback begins. Do not turn the control clockwise abruptly as the excessive power could damage the speakers.

Balance Control ㊴

Pull on the Volume control ㊴ and rotate to balance between left and right speakers.

Fader Control ㊵

Rotate the Fader control ㊵ for your desired front to rear volume balance.

Separate Bass and Treble Controls (①, ②)

Slide these controls to the right to increase, and to the left to decrease the level of Bass or Treble.

LOUDness

Press the LOUD switch ㊲ for more than two seconds to activate the loudness function. Press the LOUD switch again for more than two seconds to defeat this feature.

Mode Switching of the 7292MS

1. Radio Mode
   Press the TUNER button ⑨ to put the unit into the radio mode. The Band indicator ⑰ (FM, MW or LW) will appear in the display.

2. Cassette Player Mode
   Press the TAPE button ⑩ to put the unit into the cassette player mode.

3. CD Shuttle Mode
   Press the DISC button ㉟ to put the unit into the CD mode.

OPERATION

● RADIO OPERATION

MANUAL and AUTOMATIC SEEK TUNING

The radio does not operate in the tape play mode. To listen to the radio, press the TUNER button ⑨.

1. Turn the power on by turning the Power switch ㊴ clockwise. Continue to rotate it until the desired volume level is reached.
2. Press the TUNER button ⑨ to activate the radio mode.
3. Press the TUNER button ⑨ to select the band (MW, LW, FM1, FM2). The Radio Band indicator ⑰ will be on, and the ST (stereo) indicator ㉚ will also be on during FM stereo reception.
4. Adjust the BASS ①, TREBle ②, BALance ㊴, and FADer ㊵ controls to their center positions.
5. To automatically tune, press the TUNE switch ㊴ until the SEEK indicator ㉖ is displayed. Press the UP ⑦ or DN ⑥ button and the frequency changes to the next receivable station. Repeat the procedure until your desired station is obtained. When the radio reaches the upper or lower end of the band, it automatically starts scanning from the opposite end. To return to manual tuning, press the TUNE switch ㊴ a second time (the SEEK indicator ㉖ disappears).
6. To manually tune, press the Tuning UP button ⑦ for higher frequency broadcasts, and press the Tuning DN button ⑥ for lower frequency broadcasts.
7. Adjust the VOLume ㊴, BASS ①, TREBle ②, BALance ㊴, and FADer ㊵ controls to suit your listening preference.
8. To switch from FM to MW/LW or vice versa, press the TUNER/BAND button ⑨.

Band Selector Button

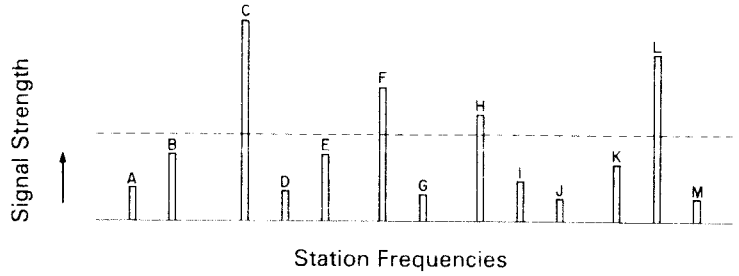
Press the BAND button ⑨ to select the desired tuning band. The Band indicator ⑰ shows your selection.

Local/Distance (DX) Sensitivity Switching for FM, MW and LW

You can select the radio SEEK sensitivity (local or distance (DX)) by pressing the DX switch ㊳ for more than two seconds.

In the distance mode, with DX indication ㉜, the radio tunes in both strong and weak stations (all stations from A to M in the illustration).

In the local mode, with no DX indication ㉜, the radio tunes in only strong stations (stations C, F, H and L in the illustration below).



OPERATION

FM Stereo/Monaural Switching

You can select the Stereo/Monaural-Auto switching or Monaural mode for FM receiving by pressing the MONO switch ㊳. In the auto switching mode, you can receive stereo broadcasting in Stereo, and monaural broadcasting in MONO. The STereo ㉚ or MOno ㉙ indicator shows your reception mode. In the monaural only mode, you will always receive the broadcast in monaural even if the broadcast is stereo. The Monaural only mode quiets the noisy stereo signal of weaker broadcasts. The STereo indicator ㉚ will not appear while the Monaural only mode is selected.

Manual Memory Preset

Follow the instructions below to enter stations into preset memory:

1. Select the tuning band (FM1, FM2, MW, LW) with the TUNER/BAND button ⑨.
2. Tune in your desired station using Manual or Auto Seek tuning.
3. Press the Preset button number 1 ⑭ for more than two seconds. The matrix display ⑲ will begin to blink. The tuning band (FM1, FM2) can be changed by pressing the BAND button ⑨ if you wish to change bands. Press that preset button again while the display is blinking (within 5 seconds).
4. The frequency you selected will be placed into Preset Memory number 1 and will appear in the display.
   NOTE:
   If a preset memory has already been set in the same address, it will be cleared and the new station will be memorized.
5. Follow steps 2 — 3 for the remaining presets (2 — 6). This procedure should be followed for FM1, FM2, MW and LW.

NOTE:

While setting the memory presets you can switch back and forth between FM1 and FM2. However, while in this mode you cannot switch back and forth from MW/LW to FM.

Auto Memory Preset

1. Press the TUNE switch ㊴ to light up the A. MEMO indicator ㉕.
2. Select the desired tuning band (FM1, FM2, MW or LW) with the TUNER/BAND button ⑨.
   NOTE:
   The Auto Memory Preset procedure is allowed in the D.A.P. Mode.
3. Press the UP ⑦ or DN ⑥ button. The tuner will automatically seek the six strongest stations in the selected band and memorize them in order of their signal strength. These stations are automatically placed in the preset memory with the strongest station in Preset No. 1 and the 6th strongest station in Preset No. 6. When seeking stations, the tuner first seeks in the local tuning mode. If less than 6 stations are memorized, the tuner seeks again in the distance (DX) mode.
4. After finishing the Auto Memory Preset, the tuner goes to the station placed in Preset Memory No. 1. If no stations are memorized, it returns to the original station you were listening to before the Auto Memory Preset procedure began.

OPERATION

Preset Tuning

After the preset stations have been memorized, you can tune in your desired station (within the band displayed) with one touch of a button.

1. Select the tuning band (FM1, FM2, MW or LW) with the BAND button ⑨.
2. Press any one of the Preset buttons ⑯ and the number of that preset will illuminate in the matrix display.
3. The frequency of the station placed in the selected preset location will appear in the display.

D.A.P. (Direct Access Preset)

This feature allows the storage of FM, MW and LW presets on the same band. Press the D.A.P. button ⑨ for more than two seconds to light up the D.A.P. indicator ⑱. To program stations into the D.A.P. band, follow steps 1 — 3 as described in the Manual Memory Preset section on page 11.

Accessing the D.A.P. Presets

1. Press the D.A.P. button ⑨ for more than two seconds. The D.A.P. indicator ⑱ will illuminate in the display.
2. Press one of the preset buttons ⑯.
3. The frequency of the station placed in the selected D.A.P. location will appear in the display.

Preset Scan

In the radio mode, this feature locates the six radio stations preset in memory on each band (MW/LW, FM1, FM2 or D.A.P.) and plays 10 seconds for each station in numerical order from the Preset No. 1 to No. 6 until the preset scan mode is deactivated. For FM presets it will scan FM1, then FM2 and continue to cycle between these two bands.

When a preset station (No. 1 through No. 6) is being received, pressing the P. SCAN switch ㊴ for more than two seconds activates the preset scan mode. Scanning begins with the next preset station. The preset scanning continues in order until this mode is deactivated by pressing the P. SCAN switch ㊴ or one of the Preset buttons ⑯ for a second time.

When a station not stored in the preset scan memory is being received, pressing the P. SCAN switch ㊴ activates the preset scan mode and scans starting with "No. 1" on the same band you were receiving.

NOTE:

When the frequency of the preset memory station is weak, the preset scanning moves to the next preset memory station at once.

OPERATION

Traffic Information Receiving

This model is equipped with traffic information receiving apparatus to be used in West Germany where the traffic information is broadcast in FM. The following is how to use this unit to receive traffic information broadcasting.

● **Radio Mode**

1. Select FM position.
2. Depress the SDK switch ㊲ and tune to a station. If the station is a traffic information station, the SK indicator ㉓ will glow and show the reception of a broadcast from a traffic information station.
   NOTE: SK Indicator
   When SK signal is received irrespective of the SDK switch position, the SK indicator will illuminate.
3. In the SDK mode, stations other than traffic information stations are muted and cut out. Therefore, it is easy to select a traffic information station.
4. As the signal of the tuned traffic information station becomes weak, the SK indicator will extinguish. Then after the lapse of 25 seconds, a rhythmical alarm will sound to urge retuning to another stronger station. If the reception of further traffic information is required, tune in the desired traffic information station. When received, the alarm will stop and the SK indicator illuminates. Since the alarm will continue if no signals from any other traffic stations can be received, release the SDK switch for reception of normal broadcasting.
5. Even if the Volume control ㊴ is set to the minimum position, the volume of the traffic information will be automatically adjusted to the level preset by the special volume control on the left side of the unit. After the message, the sound volume returns to the previously adjusted level.
6. If traffic information reception is no longer necessary, release the SDK switch for normal radio reception.

NOTES:

- When the SDK switch is pressed and there is no SK signal, ALARM will sound after the lapse of 25 seconds. Press the SDK switch again to stop it.
- When the P. SCAN is carried out with the SDK switch turned on, stations other than SK stations are skipped and a SK station is received.
- When the SEEK operation is carried out with the SDK switch turned on, the SEEK operation stops at a traffic station only.
- The A. MEMO operation with the SDK switch turned on: only the traffic stations will be memorized.
- This unit has a special volume control on the left side of the unit for adjusting the volume level for SDK reception and the alarm which will sound when there is no SK signal in the SDK mode. Set the Volume control ㊴ to the minimum level position, and adjust the special volume control on the left side of the unit to your desired level with a screwdriver.

FOR THE TAPE, CD MODES, REFER TO THE ADDENDUM SHEET.

OPERATION

● TAPE PLAYER OPERATION

Turn the unit on and press the TAPE (▶/❚❚) button ⑩ to access the tape mode.

Dolby* B Noise Reduction

Before playing a cassette tape, check to see if it is encoded with Dolby B noise reduction.

Press the Dolby B NR button ⑭ when playing a Dolby NR encoded tape. The Dolby B NR indicator ㉑ will illuminate.

Cassette Loading and Reloading

1. Insert a prerecorded cassette tape into the Cassette Loading Slot ④ with the open side facing to your right.
2. If the cassette tape is not completely loaded into the deck, lightly press the cassette into the slot.

Eject

Press the Eject button ③ to eject the cassette tape from the tape mechanism.

Pause

To temporarily stop playback, press the TAPE (▶/❚❚) button ⑩. To resume playback, press the same button again.

Playback

1. Insert a prerecorded cassette tape with the open side facing right. The playback begins immediately.
2. If a cassette tape is already loaded in the unit, press the TAPE (▶/❚❚) button ⑩ to start playback.
3. To stop tape play, press the Eject button ③ or turn the power off with the Power switch ㊴.

Fast Forward and Rewind

1. To fast-forward the tape, press the button ⑤ with the arrows pointing in the same direction as the Tape Direction indicator ㉞. To rewind, press the button ⑤ with the arrows pointing in the opposite direction of the Tape Direction indicator ㉞.
2. Lightly press the other button to stop the Fast Forwarding or Rewinding mode. The tape will start playing again.
3. When the Fast Forwarding operation reaches the end of the tape, the mode will automatically switch to playback.

OPERATION

Music Sensor

1. With Music Sensor, you can play the next selection ahead on the tape or replay the current selection. To play the next selection ahead, press the M.S. button ⑫ so the M.S. indicator ㉝ appears in the display. Then check to see which way the tape direction indicator is pointing. If it is ▶ , press the ▶▶ button into the locked position. The Music Sensor will automatically locate the next selection ahead and begin playback. If the tape direction indicator shows ◀ , press the ◀◀ button and the Music Sensor will automatically locate the next selection ahead on the tape.
2. To replay the selection currently being played, press the M.S. button ⑫ so the M.S. indicator ㉝ appears in the display. If the tape direction indicator shows ▶ , press the ◀◀ button into the locked position and the tape will automatically rewind to the beginning of the song; likewise, if the tape direction indicator shows ◀ , press the ▶▶ button to replay the current selection.
3. To deactivate the Music Sensor feature, press the M.S. button ⑫ a second time (the M.S. indicator will disappear from the display).

Auto Reverse

When the tape is played or fast-forwarded to the end, the tape transport automatically reverses the tape direction and playback begins.

Manual Reverse

To manually change playback direction (switch between side A and side B), press the PROGRAM button ⑤.

Head Cleaning

When playback sound quality begins to deteriorate, it is time to clean the tape head. Insert a special head cleaning cassette into the tape deck and allow it to run for approximately 1 minute to remove any foreign matter. There are special cleaning cassettes that also clean the capstans and pinch rollers. Please contact your authorized Alpine dealer for information about these cleaning devices.

OPERATION

● CD OPERATION

The following instructions apply only to systems that incorporate the Alpine CD Shuttle with the 7292MS.

Turn the unit on and access the CD mode by pressing the DISC (▶/❚❚) button ㉟.

Initial System Turn-On

When operating the system for the first time after installation or after the vehicle's battery has been disconnected and reconnected, press the Reset switch ⑧ with a sharp pencil or other pointed object.

Normal Play

1. Press the DISC (▶/❚❚) button ㉟.
2. The Digital Display ⑳ will show "T-00" for a second, then "T-01" will be displayed and the first track on the first disc will begin playback.
3. After the last track on the last disc is played back, the pickup will return to the beginning of the first track of the first disc and begin playback from that point.

Pause

While the disc is playing, press the DISC (▶/❚❚) button ㉟ to temporarily stop playback. The Digital Display ⑳ will show "PAU". To resume playback, press the DISC button (▶/❚❚) ㉟ again.

Music Sensor (Skip)

This feature allows you to access the beginning of your musical track selection simply and quickly. It is functional in the play or pause mode. The Digital Display ⑳ shows the track number you have selected.

- To advance to the next track on the disc, press the ▶▶| side of the M.S. · CD button ⑦.

1. Playback stops, and the pickup moves up to the beginning of the next track. That track number appears in the Digital Display ⑳.
2. Playback begins immediately.
3. If you wish to access a track further ahead on the disc, continue pressing the ▶▶| side of the M.S. · CD button ⑦ until you reach the track of your choice.

- To replay the track that is currently playing, press the |◀◀ side of the M.S. · CD button ⑥.

1. Playback stops, and the pickup moves back to the beginning of the current track. The track number in the Digital Display ⑳ remains the same.
2. Playback begins immediately from the beginning of the track.
3. If you access a track further towards the beginning of the disc, continue pressing the |◀◀ side of the M.S. · CD button ⑥ until you reach the track of your choice.

OPERATION

Direct Disc Access

1. Press the DISC SELECT button ㊱ to select from discs 1 — 6. The disc and track numbers will appear in the display.
2. Press the M.S. UP ⑦ or DN ⑥ button for musical track selection.

Fast Forward/Fast Backward

The Fast Forward/Fast Backward feature works in both play and pause modes.

1. To rapidly move the pickup forward, press the M.S. UP (▶▶|) button ⑦ and hold it down for more than one second.
2. To rapidly move the pickup backward, press the M.S. DN (|◀◀) button ⑥ and hold it down for more than one second.
3. Continue holding the UP (▶▶|) ⑦ or DN (|◀◀) ⑥ button until you reach the point where you want to resume playback, then release the switch.
4. When the pickup reaches the end of the disc, the unit will go into the Pause mode.

REPEAT (One/All)

This feature allows you to continuously repeat a single track or one entire disc.

To Repeat a Single Track

1. Locate the music track of your choice using the M.S. UP ⑦ or DN ⑥ button.
2. Press the REPEAT button ⑬.
   The RPT indicator ㉘ will illuminate.
   The music track will be played back repeatedly.
3. To stop repeat play, press the REPEAT button twice. The indicator switches from RPT to RPT ALL and the illumination will be off.

To Repeat an Entire Disc

1. While playing a disc, press the REPEAT button ⑬ until RPT and ALL indicators are illuminated.
2. The disc will be played back repeatedly.
3. To stop repeat play, press the REPEAT button ⑬ once. The indicator illumination will be off.

Disc Scan

Press the SCAN button ⑪ and the unit will playback the first 10 seconds of each track in succession. This function is useful in searching ahead on a disc for a specific selection. Pressing the SCAN button ⑪ a second time deactivates the function.

M.I.X. (Random Play)

Press the M.I.X. button ⑮ while the unit is in the play or pause mode. Musical tracks on the selected disc will be played back in a random sequence generated by the microprocessor. After all the tracks on the disc have been played back once, the player will begin a new random sequence.

ERROR INDICATION FOR CD SHUTTLE

INDICATION	CAUSE	SOLUTION
E 0 1	Disc-change malfunction.	Consult your Alpine dealer.
	Disc-change malfunction.	Press the magazine eject button and pull out the Magazine. Check for error indication. Insert the magazine again. If the magazine can not be pulled out, consult your Alpine dealer.
	Magazine ejection impossible.	Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.
E 0 2	Disc is in player mechanism.	Press the magazine eject button, and insert an empty magazine.
- - H	High Temperature.	Will disappear when the temperature returns to operation range.
E E E	Misconnection or disconnection of CD Shuttle.	Check connection between CD Shuttle and control unit.

SPECIFICATIONS

FM TUNER

Tuning Range	87.5 — 108.0 MHz
Sensitivity	1.5 μV
Alternate Channel Selectivity	80 dB
S/N (signal-to-noise) Ratio	60 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

MW TUNER

Tuning Range	531 — 1,602 kHz
Sensitivity	10 μV

LW TUNER

Tuning Range	153 — 281 kHz
Sensitivity	20 μV

TAPE

Tape Speed	1-7/8 ips (4.8 cm/sec) ±1%
Wow and Flutter	0.09% WRMS
Stereo Separation	40 dB
S/N (signal-to-noise) Ratio	
With Dolby B-Type NR	64 dB
Without Dolby NR	55 dB
Frequency Response	
With NORMAL (120μs) tape	40 — 14,000 Hz ±3 dB
With METAL/CrO_2/FeCr (70μs) tape	40 — 18,000 Hz ±3 dB

GENERAL

Power Requirement	14.4V DC (11 — 16V allowable)
Max. Power Output	25W + 25W
Output Voltage	500 mV/10k ohms
Bass	±15 dB at 30 Hz
Treble	±12 dB at 10 kHz
Loudness Contour (at 100 Hz)	+10 dB
Speaker Impedance	4 ohms
Weight	2.1 kg (4 lbs. 10 oz)

CHASSIS SIZE

Width: 178mm (7"), Height: 50mm (2"), Depth: 153mm (6")

NOSEPIECE SIZE

Width: 171mm (6-3/4"), Height: 48mm (1-7/8"), Depth: 21mm (13/16")

Due to continuing product improvement, specifications and design subject to change without notice.